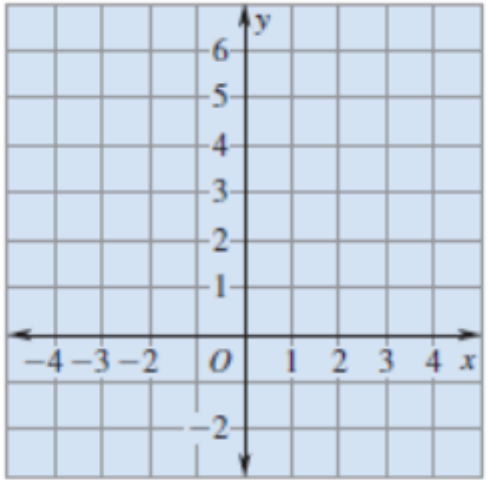
Daily Math:

EXAMPLE 3 **Reflecting a Figure**

Draw trapezoid *DEFG* with vertices *D*(3, 3), *E*(1, 4), *F*(1, 1), and

For each vertex of the original figure, multiply the [ ]-coordinate by [ ].

Original		Image
$D(3, 3)$	$\rightarrow$	
$E(1, 4)$	$\rightarrow$	
$F(1, 1)$	$\rightarrow$	
$G(3, 1)$	$\rightarrow$	



The graph shows both figures.

EXAMPLE 1 Finding a Sale Price

Music You buy a CD that is 40% off the original price of $12. What is the sale price?

Solution

1. Find the amount of the discount.

Discount = 40% of $12

= ☐ Write 40% as a decimal.

= ☐ Multiply.

2. Subtract the discount from the original price.

Sale Price = Original price − Discount

= ☐ − ☐ = ☐

Answer: The sale price is $☐.

EXAMPLE 2 Finding a Retail Price

Furniture A furniture store that sells sofas buys them from a manufacturer at a wholesale price of $350. The store's markup is 200%. What is the retail price of the sofa?

1. Find the amount of the markup.

Markup = 200% of $350

= ☐ Write 200% as a decimal.

= ☐ Multiply.

2. Add the markup to the wholesale price.

Retail Price = Wholesale price + Markup

= ☐ + ☐ = ☐

Answer: The retail price is $☐.

Guided Practice **Solve the following problems.**

1. A store is selling all shoes at 20% off the original price. What is the sale price of a pair of shoes originally priced at $65?

2. A store buys software from a manufacturer at a wholesale price of $72. The store's markup is 75%. What is the retail price?

EXAMPLE 3 Finding Sales Tax and Tip

Diner At a diner, Maddie orders a meal that costs $8. She leaves a 15% tip. The sales tax is 6%. What is the total cost of the meal?

Solution

1. Find the tip. 15% of $8 = ☐ = ☐

2. Find the sales tax. 6% of $8 = ☐ = ☐

3. Add the food bill, tip, and sales tax. ☐ = ☐

Answer: The total cost of the meal is $☐.

Homework:

Worksheet B or C